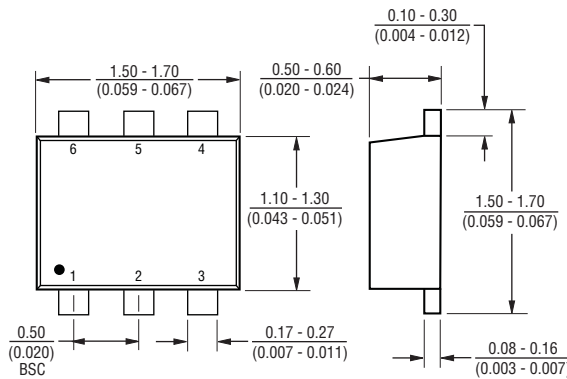


CDSOT563-T05C – SMT TVS Diode Array

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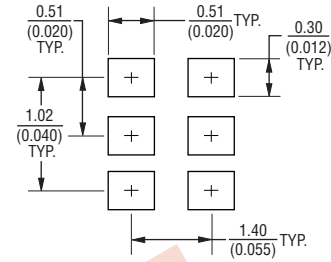
Product Dimensions

This is a molded JEDEC SOT-563 package with lead free 100 % Tin (Sn) on the lead frame. It weighs approximately 15 mg and has a flammability rating of UL 94V-0.



DIMENSIONS = $\frac{\text{MILLIMETERS}}{\text{(INCHES)}}$

Recommended Footprint



How To Order

Common Code CD SOT563 - T 05C

CD = Chip Diode

Package SOT563 = SOT-563 Package

Model T = Transient Voltage Suppressor Diode

Maximum Working Peak Voltage 05C = 5 V

Typical Part Marking

CDSOT563-T05CE5U

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

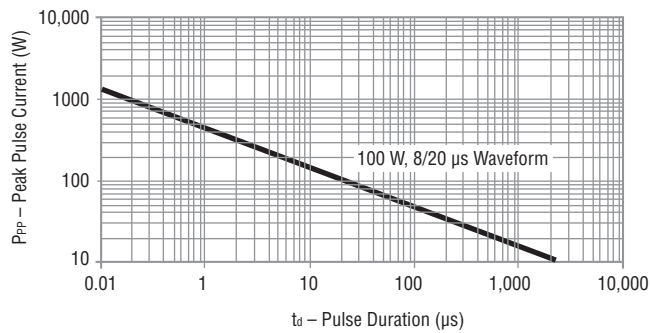
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CDSOT563-T05C – SMT TVS Diode Array

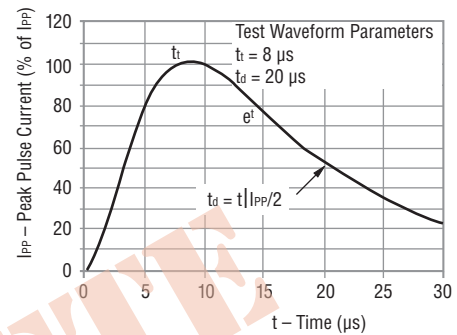
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Performance Graphs

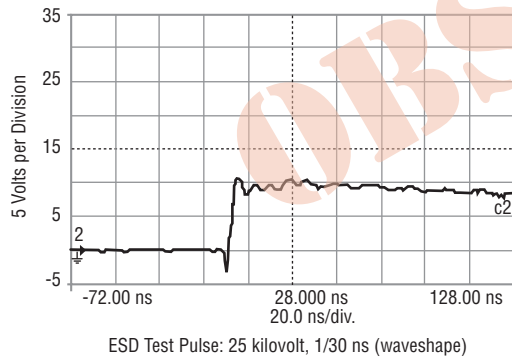
Peak Pulse Power vs Pulse Time



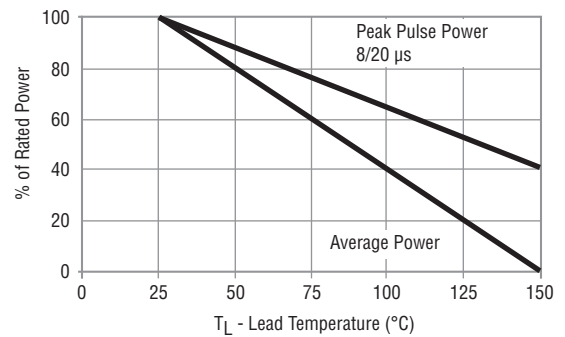
Pulse Waveform



Overshoot & Clamping Voltage



Power Derating Curve



Specifications are subject to change without notice.

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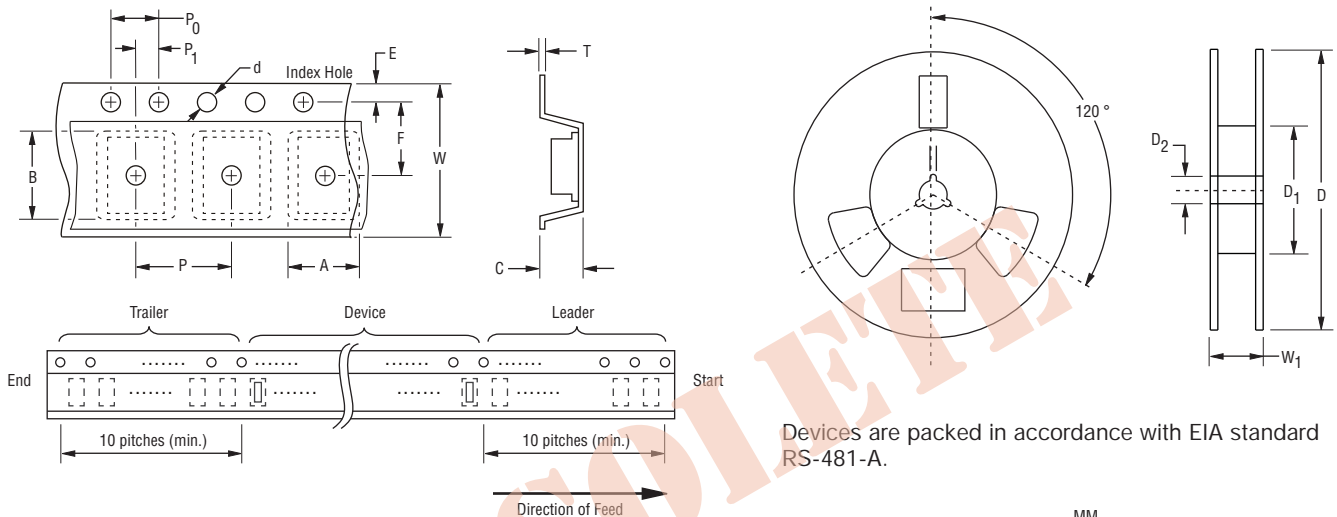
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CDSOT563-T05C – SMT TVS Diode Array

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Packaging Information

The product will be dispensed in tape and reel format (see diagram below).



DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

Item	Symbol	SOT-563
Carrier Width	A	1.78 ± 0.005 (0.069 ± 0.002)
Carrier Length	B	1.78 ± 0.005 (0.069 ± 0.002)
Carrier Depth	C	0.69 ± 0.05 (0.027 ± 0.002)
Sprocket Hole	d	1.55 ± 0.05 (0.061 ± 0.002)
Reel Outside Diameter	D	178 (7.008)
Reel Inner Diameter	D ₁	50.0 (1.969) MIN.
Feed Hole Diameter	D ₂	13.0 ± 0.20 (0.512 ± 0.008)
Sprocket Hole Position	E	1.75 ± 0.10 (0.069 ± 0.004)
Punch Hole Position	F	3.50 ± 0.05 (0.138 ± 0.002)
Punch Hole Pitch	P	4.00 ± 0.10 (0.157 ± 0.004)
Sprocket Hole Pitch	P ₀	4.00 ± 0.10 (0.157 ± 0.004)
Embossment Center	P ₁	2.00 ± 0.05 (0.079 ± 0.002)
Overall Tape Thickness	T	0.20 ± 0.10 (0.008 ± 0.004)
Tape Width	W	8.00 ± 0.20 (0.315 ± 0.008)
Reel Width	W ₁	14.4 (0.567) MAX.
Quantity per Reel	--	3000

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